Primary Conflict	Approach to Resolve Conflict
Fisheries and Diversions	Increase Fish Productivity (1A)
(Conflict 1)	Diversion Modification (1B)
Habitat and Land Use/Flood Protection	Preserve Existing Land Use (2A)
(Conflict 2)	Create Additional Habitat Area (2B)
Water Supply Availability and Beneficial Uses	Reduce Critical Export Area Demands (3A)
(Conflict 3)	Enhance Delta Supplies as Inflows (3B)
Water Quality and Land Use	Managing Quality of Dulta Inflow (4A)
(Conflict 4)	Manage Instream In-Delta Water Quality (4B)
Minimum or Maximum	

Solution Overview

A total of 92 actions has been identified which meet the selection criteria for inclusion in this maximum edge alternative and addressing each of the four conflict areas. Many of the selected actions are duplicative given the implementation of other similar actions. Only 1 actions directly address improvement of habitat quality and preservation of existing land use practices. Many of the actions selected for improvement of fish productivity would indirectly improve habital quality. Approximately one-half of the actions achieve increases in supplies to the Bay-Delta system, the solution strategy for Conflict 3.

Actions Selected

Habitat -

Populations - Actions to improve fish productivity and population abundance include modification of Bay-Delta diversion patterns, relocation of Delta export pumps, and installation of more efficient fish screens. Diversions -

Water Use - These actions include numerous potential projects to develop greater yield through construction or expansion of reservoirs or improvements to through-Delta conveyance.

Water Quality - The actions include flow barriers to manage south Delta water quality and control salinity intrusion and also actions aimed at diluting pollutant discharges for flows in the Bay-Delta system.

<u>Land Use/Levees/Flood Protection</u> - The actions include reversing subsidence problems and improving levees, all to maintain existing land use practices.

Institutional -

Preliminary Assessment

The solution strategy of the alternative is generally very sound. The objectives to reach resolution within each of the four conflict areas compliment each other. Reducing impacts from diversions by modification of existing facilities and operation schemes would promote increased efficiency in diversions within the Delta. This is complimented by increases in supplies to the Bay-Delta which could be used to increase supplies both for diversion and environmental purposes. However, to create a more balanced approach, reduction in diversion demands should also be pursued. Additional measures to result in a more balanced approach include restoration of habitat quality and reducing pollutant discharges.

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	-Enforce screen requirements	Centenal of attended in the at	
	-Consolidate and screen existing small diversions	Reduction of diversion impacts .	
		Reduction of diversion impacts	
	and services on upstream diversions	Reduction of diversion impacts	
	enoistevib atle (In-notice no eneeste lighterion)	Reduction of diversion impacts	
	-Improve other existing fish screen systems	Reduction of diversion impacts	
	Improve screens at Delta export pumps	Reduction of diversion impacts	
	Installation and Improvement of Fish Screens		
	emetheq grilmit noistevib ni sfiirle nistido-	Reduction of diversion impacts	
	Acquire Water Supplies for Fish and Wildlife		
	-To reduce diversion impacts	Reduction of diversion impacts	Increase pumping capacties during critical periods
	-Enlarge export pumping capacities		
	-To reduce diversion impacts	Reduction of diversion impacts	ficrease pumping capacities during critical periods
	-Obtain approvals for expanded export capacities		
	Increased Rates of Diversion Capacity		
	-Coordinate SWP/CVP diversion timing	Reduction of diversion impacts	
	enoistavib troqxa to gnimit noistavib vitboM-	Incresse supplies and reducis diversion impacts	
	Modification of Diversion Timing Patterns		
	etablish a Delta watermaster to manage flows	Increase supplies and reduce diversion impacts	
	-Modify volumes and timing of exports	Reduction of diversion impacts	
	Delta Outflow/Export Management		
	-Provide instream flows for fish attraction	ncrease supplies and seduce derest no most selects	
	-provide instream pulse flows for fish passage	Increase supplies and reduce affersion impacts	
	enougheen meatequ vilboM-	increase supplies to the Delta during critical periods	
	Delta Inflow Management	shoiten leathta printib etted aft at sellerus assalisaril	
	-Protect riparian lands through purchase/easements	rejoed lis to training the color	Company Company to the Company of th
	zistidsri nshsqh bebsrgeb eistegeve St-		sezu brising en alter existing and ton rothon
	Restoration of Upstream Riparian Habitat	Hiproyed habitation all species	Action not to implyge or after existing land uses
		ingprovements for anadromous fish species	
	-Restore shoreline habitat conditions	seibeqs risit suomotisms tot striempvoggrif	
	-Restore channel configurations	selbeqs right suomorbana tol striemevorgini	
		zeibegs daß euomorbans rof anemeveriging	
	Restoration of Upstream Anadromous Fish Habitat	*	
	-increase sources and availability of wildlife forage	seibeds laiterrestrist for terrestrial species	Action not to impinge or after existing land uses
	-Implement terrestrial predator control programs	seibeqs lainteernet tot halidari bevorqmi	
	zears iwotietsw cital of public seas	Improved habitat for terrestrial species	Action not to impinge or after existing land uses
	Delta Waterfowl Habitat Management		
	-Inspect for invasions of nuisance species	Improved habitat for all species	
	Control of Introduced Species		
	Integrated Habitat Management Programs	Improved habitat for all species	Action not to implinge or after existing land uses
	Restoration of Delta Terresrial Habitat	Improved habitat for terrestrial species	Action not to impinge or alter existing land uses
	Emergorg nodisition programs	Improved habitat for all species	Action not to impinge or after existing land uses
	Restoration of Delta Wetland Habitat		
Category	Actions Selected	Holonialii loi eleng initonalin t	Homeson and the Homeson and th
	hotogies anoitab	Functional Basis for Inclusion	Specification for Action Implementation

and the control of the

Category	Actions Selected	Functional Basis for Inclusion	Specification for Action Implementation
	Install Barriers to Guide Fish Movement		
	-Install barriers to block fish movement into Old River	Reduction of diversion impacts	
	-Install barriers to keep fish in Sacramento River	Reduction of diversion impacts	
	-Install barriers to divert fish from Sacramento to western channels	Reduction of diversion impacts	
	Improvement of Fish Slavage Operations		
	-Improve design of salvage facilities	Reduction of diversion impacts	
	-Improve operation of salvage facilities	Reduction of diversion impacts	
	-Improve fish hauling and release procedures	Reduction of diversion impacts	
	Removal and Control of Aquatic Predators		
	-Harvest predators at Delta export pumps	Reduction of diversion Impacts	
	-Harvest predators in upstream habitats	Reduction of diversion impacts	·
	Desalination		
	-Expand desalination of San Joaquin Valley supplies	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	Water Conservation		
	-Increase use of district-wide conservation practices	increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Increase use of on-farm conservation practices	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Increase use of municipal conservation practices	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Increase use of industrial conservation practices	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Implement financial incentive policies	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Educate users about conservation technologies	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Implement conservation-oriented rate structures	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	Water Reclamation		
	-Recharge groundwater with reclaimed water	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Deita
	-Use reclaimed water for agricultural irrigation	Increase supplies to the Della during critical periods	Action to be implemented in area upstream of the Delta
	-Reclaim saline agricultural drainage water	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Recycle and treat water for potable reuse	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Use reclaimed water for nonpotable urban uses	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Use reclaimed water for landscape irrigation	Increase supplies to the Delta during critical periods.	Action to be implemented in area upstream of the Delta
	-Use reclaimed water for power plant cooling	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Use reclaimed water for industrial processes	Increase supplies to the Delta during ordical periods	Action to be implemented in area upstream of the Delta
	-Use reclaimed water to repel salinity intrusion	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Improve reclamation technologies and cost	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Educate public about water reclamation	Increase supplies to the Delta during critical periods	Agrien to be implemented in area upstream of the Delta
	Water Pricing		
	-Establish incentives for pricing to reduce demand	Increase supplies to the Delta during critical periess	Action to be implemented in area upstream of the Delta
	-Educate users about pricing feasibility	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Remove legal obstacles to pricing incentive programs	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	Watershed Management		
	-Manage vetegation cover to increase yield	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Manage vetegation cover to increase yield -Modify weather to increase precipitation	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	New or Expanded On-Stream Storage	managed adhitias to the management annual havings	The state of the s
	-Construct new storage north of Delta	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
		Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Enlarge existing on-stream storage reservoirs	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Modify operations of existing on-stream reservoirs New or Expanded Off-Stream Storage	Intereses arbbues to the regire driving current benons	Presion to an implementation in alea upodeam of the Delta

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Category	Actions Selected	Functional Basis for Inclusion	Specification for Action Implementation
	-Construct new storage north of Delta	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Fnlarge existing off-stream storage reservoirs	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	.Modify operations of existing off-stream reservoirs	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	Groundwater Banking and Conjunctive Use		
	-Modify California Water Code to encourage conjunctive use	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Establish conjunctive use programs	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Store groundwater north of Delta	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Implement techniques to increase groundwater recharge	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	Improvement of Through-Delta Conveyance		
	-increase capacities of existing east-side channels	Increase supplies and reduce diversion impacts	
	-Increase flows from the Sacramento R. to the Central Delta	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Modify Delta levees to increase flow cross-section	Increase supplies to the Delta during critical periods	Action to be implemented in area upstream of the Delta
	-Construct pumps/siphons between Delta channels	increase supplies and reduce diversion impacts	
	n key habitats	Redisction of diversion impacts	
		Reduction of diversion impacts	
	n key habitats	Reguction of diversion impacts	
		Reduction of all version impacts	
	Long-Term Planning for Drought Contingencies		
	-Increase water storage capacities at user locations	Increase supp	Action to be implemented in area upstream of the Delta
	Water Resources Data and Information Management		
	Institutions for Integrated Long-term Water Management		
	-Establish long-term guarantees for management	Ę	
	-Establish institution to implement guarantees	39.60	
	Integration of Land-Use and Water-Supply Planning		
	-Coordinate land uses with water supplies	ses and increase	Action to be implemented in area upstream of the Delta
	Installation and Operation of Flow Barriers		
	-install flow barriers to manage South Delta quality		
	-install weirs to caontrol salinity intrusion		
	Management of Agricultural Drainage		
	-Manage drainage timing to reduce instream impacts		/[
	-Dilute pollutants in Delta inflows from SJR using stored water	Manage instream water quality	
	Management of Urban and Wastewater Discharge		
	Levee Maintenance and Stabilization	****	
	-Modify agricultural practices to reduce subsidence	Preserve existing land uses	Actions should not impinge or after existing land use patterns
	-Use infilling to correct past subsidence	Preserve existing land uses	Actions should not impinge or after existing land use patterns
	Improvement of Flooding & Seismic Protections		
	-Reconstruct levees to higher design standards	Preserve existing land uses	
	-Reconstruct levees to higher seismic standards	Preserve existing land uses	
	Establishment of Long-Term Funding Mechanisms	Establish funding for all management programs	
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